SONY

3-864-452-**11(1)**

Video Presentation Stand

OPERATING INSTRUCTIONS

Operating Instructions Page 2 EN

VID-P110

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Owner's Record

The model and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. VID-P110 Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

For the customers in the USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For the customers in Canada

This Class A digital apparatus complies with Canadian ICES-003.

NOTICE FOR THE CUSTOMERS IN THE UNITED KINGDOM

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

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Introduction

The VID-P110 Video Presentation Stand allows you to display visual materials such as paper-based documents, transparent sheets, slides, film negatives, and solid objects on a color monitor or projector by shooting them with a color video camera.

Features

The VID-P110 has the following features.

Easy to connect

Visuals can be displayed by simply connecting a color monitor because the camera, lens, light, and power supply are all incorporated in one unit.

Sharp screen

The 380,000 (for the NTSC model) or 440,000 (for the PAL model) pixels of the 1/3-inch CCD pickup device allow 460 (for the NTSC model) or 450 (for the PAL model) horizontal resolution TV lines producing high screen resolution. An S VIDEO OUT connector allows you to connect a monitor or projector equipped with an S VIDEO IN connector, thus giving you even higher screen resolution.

Easy to adjust

The arm lights turn on and the focus, iris and white balance adjust automatically after power-on. You can also adjust each setting manually depending on the picture you want to display.

Quick response auto focus

When the inner focus lens is used, it can correctly adjust focus position in only 1 or 2 seconds.

12 × power zoom lens

The 12 × power zoom lens allows you to display various materials ranging in size from a 1 3/16" × 7/8" (29 × 22 mm) to a 12 7/8" × 9 1/2" (325 × 240 mm) sheet on the screen.

Pattern memory

Two pattern settings can be set. The pattern memory function memorizes the zoom, focus, iris, white balance, lighting and effect (black & white, negative) settings. To recall the pattern memory, press the button you preset.

Tilting and panning mechanism

By tilting the camera upwards through 90 degrees and moving it from left to right, you can pan and/or tilt the camera to shoot material pasted on the wall or even yourself.

Easily removable close-up lens

After tilting up the camera, you can easily remove the close-up lens by revolving it.

Various materials can be shot and displayed

Various materials from paper-based documents and transparent sheets to slides, film negatives and solid objects can be shot and displayed.
To shoot and display film negatives, just press the appropriate button to change the lighting to the back light and setting for displaying film negatives.

Built-in back light

The large-sized built-in back light allows the A4-sized object such as transparent sheets, slides or film negatives to be shot and displayed on a monitor. To use the back light, just press a button.

Built-in video selector

A video selector is incorporated in this unit. It allows you to switch the pictures shot with this unit to those from the connected video equipment such as a VCR and laserdisc player and vice versa.

Sound mixing function

You can add a running commentary simply by connecting a microphone and a monitor with speakers. In addition, existing audio signals can be mixed with the audio signal from the microphone, so you can add a commentary while displaying video signals via the built-in video selector on a monitor.

Various output style

A Y/C separator is incorporated in this unit. It allows you to output the video signal to either VIDEO OUT or S VIDEO OUT regardless of the input video signal from VIDEO IN or S VIDEO IN.

External control from a computer

An RS-232C interface is provided with this unit. This interface allows the unit to be controlled from an external computer. However, the software to control the VID-P110 must first be installed. Refer to the “Interface Manual” for details on the commands and communication protocol for this software.

Easy to transport

The unit can be collapsed so easily and weighs so little that it can be carried with no trouble, allowing you to make a presentation anywhere.

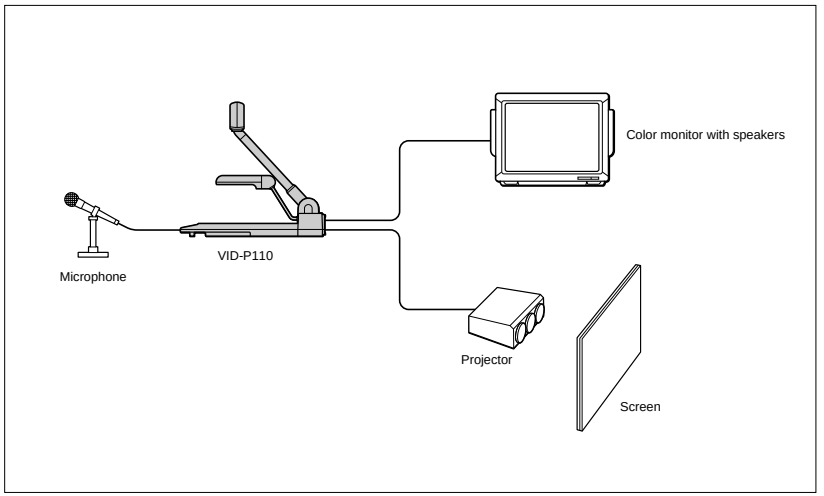
Accessory shoe for an LCD (liquid crystal display) monitor

This unit has an accessory shoe for attaching an LCD monitor. You can use this monitor to conveniently confirm your view by attaching it to the accessory shoe.

System Configuration

Basic configuration

The basic system for making a presentation or displaying educational materials is as follows:

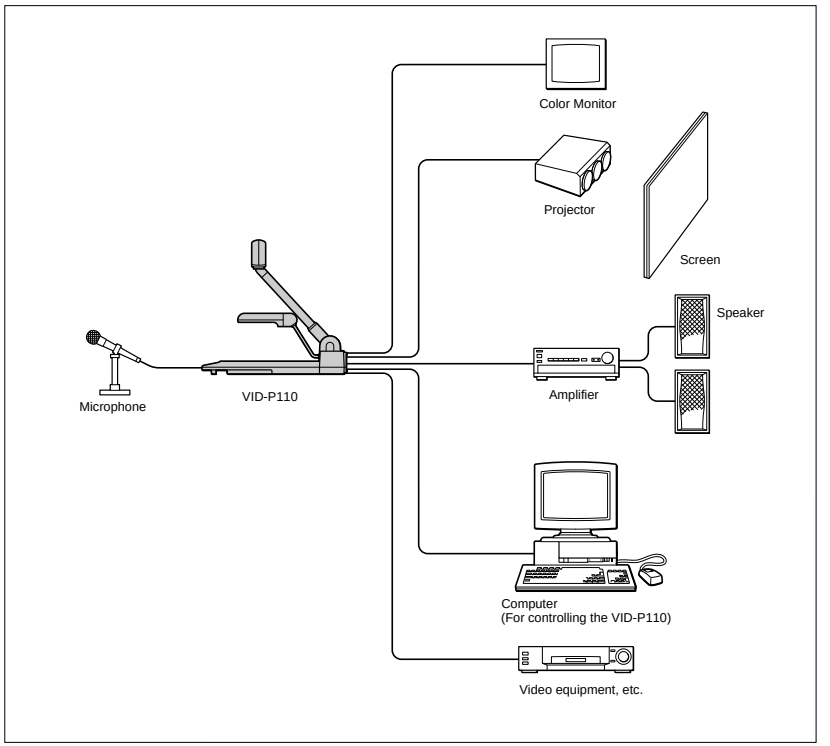


Advanced system

When you connect video equipment such as a VCR or laserdisc player to this unit, you can switch the picture/sound to those from the connected video equipment, and vice versa by using the VIDEO OUT buttons. When you connect a computer, you can control the VID-P110 from the computer.

Note

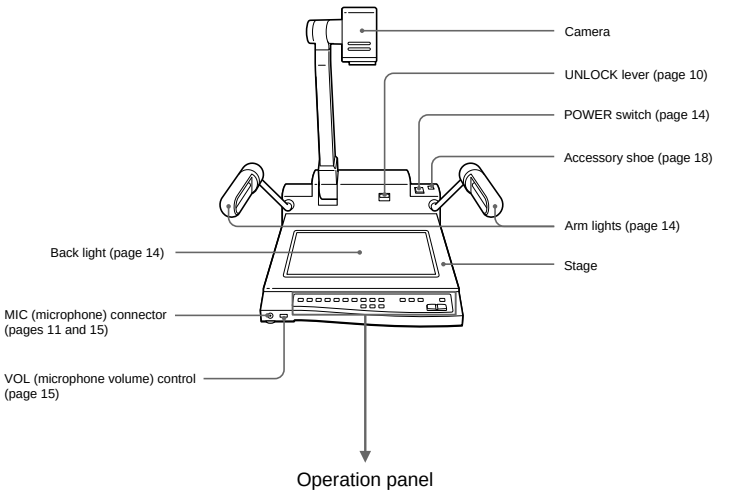
When you control the VID-P110 from a computer, special software is required. To program in this software, refer to the “Interface Manual”.



Parts Identification

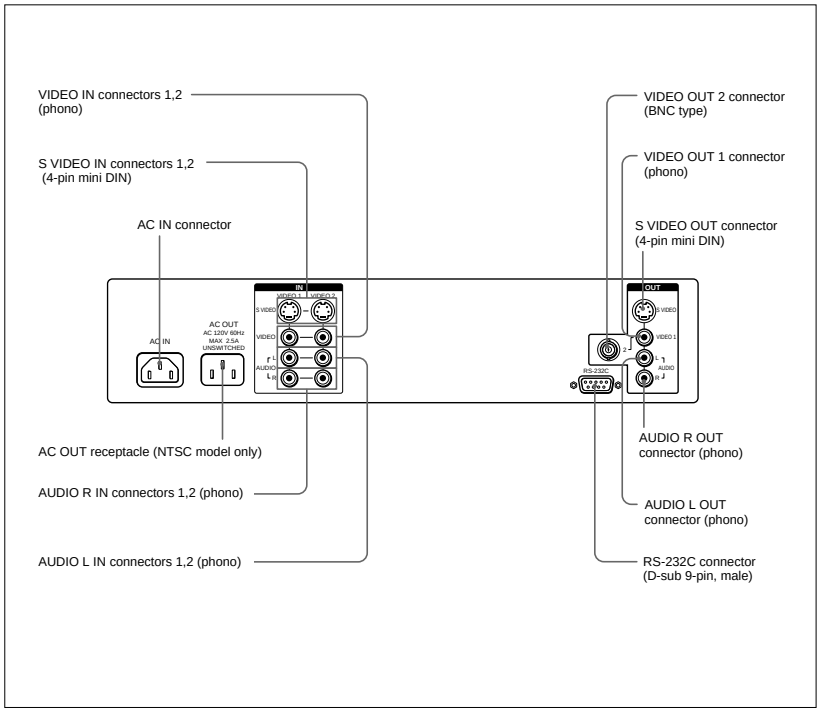
For details on the use of each part, see the pages indicated in parentheses.

Camera and Operation Panel



Rear Panel

For details on the use of the connectors, see pages 11 and 12.



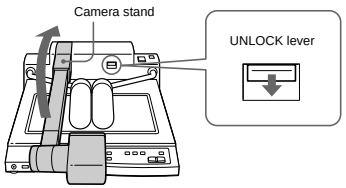
Preparation

Precautions

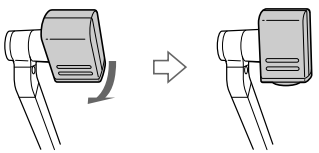
- Unplug the VID-P110 from the wall outlet when it is not being used for a long period of time. To disconnect the cord, pull it out by grasping the plug. Never pull it out by the cord itself.
- The fluorescent lamps can get hot during operation. Do not touch the lamps during operation and when collapsing the VID-P110.
- Clean the cabinet with a soft cloth lightly moistened with a mild detergent solution. Never use any type of solvent such as alcohol or benzine, which might damage the finish.
- Clean the lens with an air spray or soft dry cloth, taking care not to scratch it.
- When the fluorescent lamps flash or get darkened, the fluorescent lamps should be replaced with new ones. In this case, contact your Sony dealer.

Setting Up the Unit

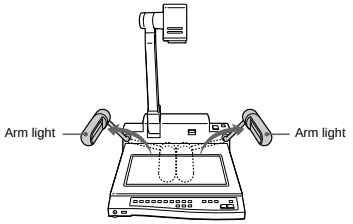
1 Lift up the camera stand while keeping the UNLOCK lever pressed down.



2 Adjust the camera to the direction shown by the arrow so that the lens faces downwards.



3 Open both arm lights until they fix in place.



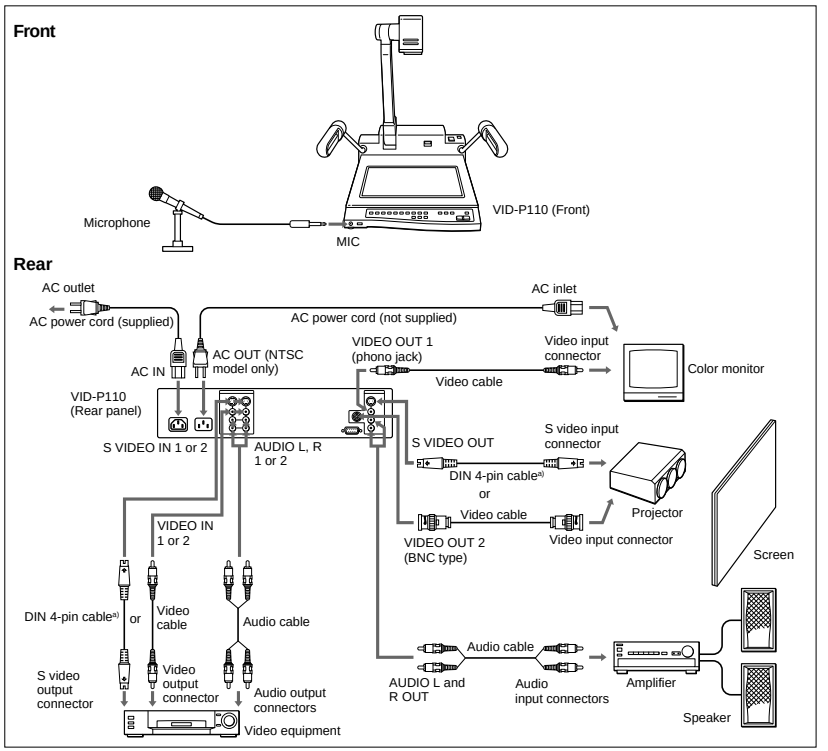
4 Connect the power cord to the AC IN connector on the rear panel.

Connecting the Unit to Other Equipment

Notes on connections

- Before making any connections, turn off the power of the VID-P110 and the equipment to be connected.
- For NTSC model only: Before connecting a device such as a monitor to the VID-P110 AC OUT receptacle, check to see if the power consumption is 2.5 A or less. Do not connect any device whose power consumption is over 2.5 A to the VID-P110.

Example of connections to this unit

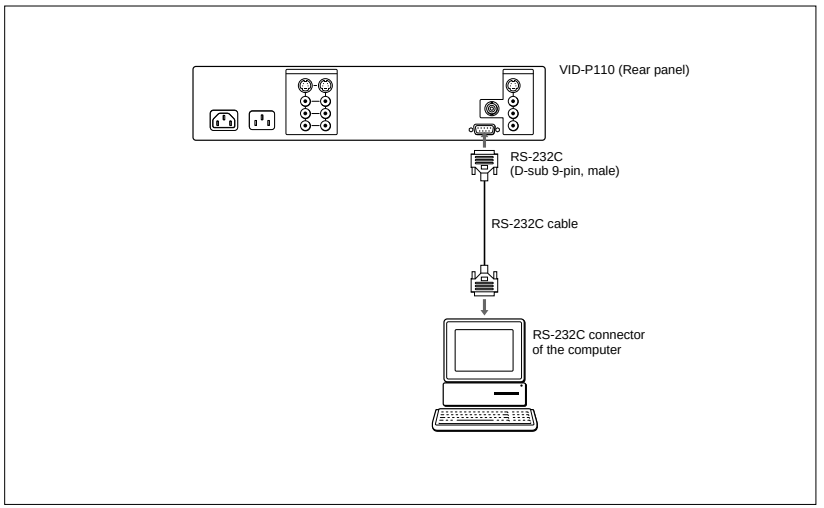


a) **Note**

It is recommended that you use the DIN 4-pin cable when you connect this unit to the equipment with an S video input or output connector.

Connections for external control from a computer

After performing the connections on the previous page, make the connections shown below to control this unit from the connected computer.



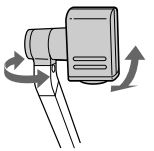
Note

When you control the VID-P110 from a computer, special software is required. To program in this software, refer to the “Interface Manual”.

Adjusting the Parts

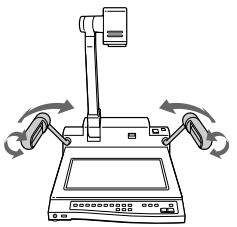
Adjusting the camera

When the picture is not upright, rotate the camera up and down and move it from left to right to adjust.



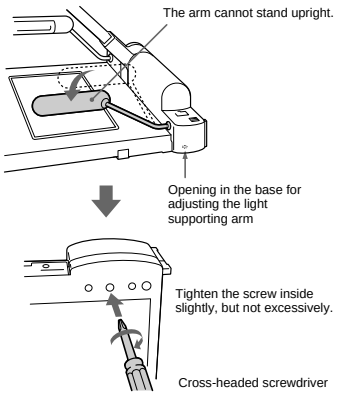
Adjusting the arm lights

Adjust the angle of the arm lights depending on the object.



If the light supporting arms loosen

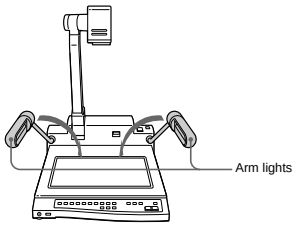
If the arms will not stay upright, the screw in the base may be loose. After turning off the POWER switch, tighten the screw as shown below.


The arm cannot stand upright.
Opening in the base for adjusting the light supporting arm
Tighten the screw inside slightly, but not excessively.
Cross-headed screwdriver

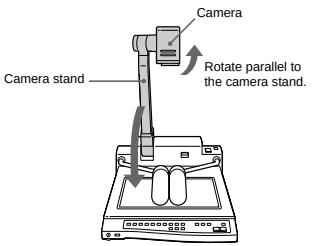
Collapsing the Unit

Follow the instructions below to collapse the VID-P110 for transportation or convenience.

1 Fold both arm lights down onto the base.

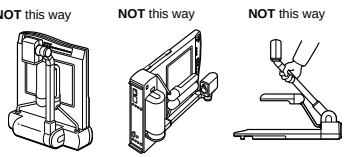


2 Rotate the camera parallel to the camera stand. Carefully fold down the camera stand toward the operation panel side until it locks.



Cautions

- Lay the unit down flat. Do not try to stand it on its rear or sides. Doing so may cause the unit to fall resulting in damage or personal injury.
- Do not try to pick up this unit by the camera stand. This may cause the unit to malfunction, and may cause you injury.



Operations

This section explains two things: the basic operation for displaying normal materials and the advanced operation for displaying special materials such as film negatives.

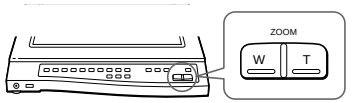
Basic Operation

Turning on the power (POWER switch)

Press the POWER switch to turn on the power. The VID-P110 automatically turns on the arm lights, adjusts the focus, iris (brightness), and white balance. While adjusting the settings, the CAMERA indicator flashes for about 6 seconds and you cannot operate the ZOOM, FOCUS, IRIS or W.BALANCE buttons. When the VID-P110 finishes adjusting the settings, the CAMERA indicator light stays on and now you can use this unit.
The only thing left to do is to zoom the image on the screen to display a normal document.

Zooming the image on the screen (ZOOM buttons)

To zoom into or out from the image on the screen, use the ZOOM buttons on the operation panel.
To zoom out from the image for panoramic long shots, press the W (wide-angle) button. To zoom into the image for close-ups, press the T (telephoto) button.
The VID-P110 offers two levels of speed zooming. Press the button firmly for high speed zooming and softly for slower zooming.

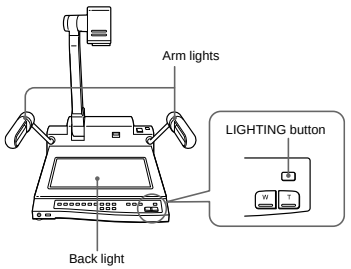


Switching the lighting (LIGHTING button)

The arm lights turn on automatically when the power is switched on. Each time you press the LIGHTING button, the lighting changes as follows.

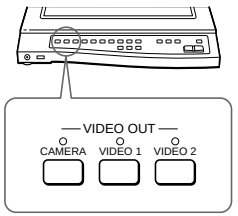
The back light turns on.
↓
All the lights turn off.
↓
The arm lights turn on.

When shooting and displaying transparencies such as transparent sheets, slides and film positive, press the LIGHTING button to switch the light from the arm lights to the back light.
When you press the LIGHTING button repeatedly, wait 1 second before you press the LIGHTING button again.



Selecting the signals to output (VIDEO OUT buttons)

The VIDEO OUT buttons on the operation panel allow you to switch the pictures shot with this unit to those from the connected video equipment and vice versa.



To output the video signal from the VID-P110 camera and the audio signal from the microphone connected to the MIC connector
Press the CAMERA button. The video signal from the camera of the VID-P110 and the audio signal from the microphone connected to the MIC connector are automatically output.
When turned on, the video signal from the camera is automatically output.

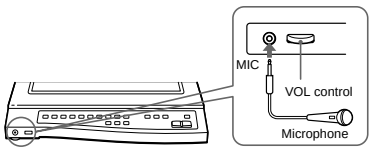
To output a signal from the video equipment connected to the VID-P110
Press the VIDEO 1 or VIDEO 2 button.
The VIDEO IN connectors on the rear panel are interlocked to the VIDEO buttons, the VIDEO IN 1 connector to the VIDEO 1 button and the VIDEO IN 2 connector to the VIDEO 2 button.
When the microphone is connected, this unit outputs sound by mixing the audio signal from the AUDIO IN connectors with the audio signal from the microphone. When you want to switch the video signal from the input connectors to the camera, press the CAMERA button.

Note

When you connect video equipment to both the S VIDEO IN 1 connector and the VIDEO IN 1 connector on the rear panel, the video signal from the S VIDEO IN 1 connector is automatically output. It is the same when you connect both the VIDEO IN 2 and S VIDEO IN 2 connectors.

Adjusting the microphone level (VOL control)

Use the VOL control on the front of the VID-P110 to adjust the level of the microphone connected to the MIC connector. Turn it to the right to increase the volume. Turn it to the left to decrease the volume.



Advanced Operation

Adjusting the image to your taste

The VID-P110 automatically adjusts the focus, iris and white balance when you turn on the power and set the material to be displayed in the middle of the screen. You can also adjust them yourself manually as you wish.

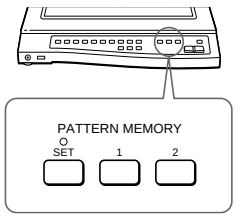
Presetting the pattern memory (PATTERN MEMORY buttons)

The PATTERN MEMORY buttons on the operation panel allow you to preset two pattern settings. The pattern memory function memorizes the zoom, focus, iris, white balance, lighting and effect (black & white, negative) settings. Once you have preset the pattern memory for an object you use often, you can recall the pattern memory by pressing the button you preset.

1 Adjust the zoom, focus, iris, white balance, lighting and effect (black & white, negative) settings.

2 Press the PATTERN MEMORY SET button.

3 Press the PATTERN MEMORY 1 or 2 button while the PATTERN MEMORY SET indicator is flashing fast (for about 5 seconds).
The PATTERN MEMORY SET indicator lights for about 2 seconds and then turns off. If the PATTERN MEMORY SET indicator does not light for about 2 seconds, the setting may not have been memorized. In this case, repeat steps **1** to **3**.



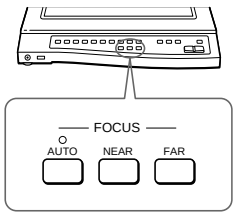
To recall the setting you preset
Press the PATTERN MEMORY 1 or 2 button.

Note
The setting you preset will be reset when you turn off the power.

Adjusting the focus manually (FOCUS buttons)

Use the FOCUS buttons on the operation panel to adjust the focus. You can also adjust the focus for a three-dimensional object by using the NEAR and FAR buttons. Adjust the focus manually when you display:
- a material that includes small type or fine patterns which are difficult to focus,
- a material of low contrast, or
- a three-dimensional object.

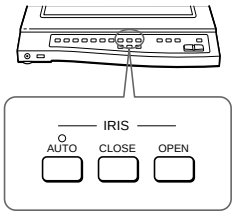
You can lock the focus when the focus is adjusted automatically. Press the FAR or NEAR button once to lock the focus.



To go back to automatic focus
Press the AUTO button to light the AUTO indicator.

Adjusting the iris (Brightness) manually (IRIS buttons)

Use the IRIS buttons on the operation panel to adjust the iris (brightness). To increase the brightness, press the OPEN button. To decrease the brightness, press the CLOSE button. Adjust the iris manually when you want to display:
- an object which reflects light strongly and the picture looks whitish,
- a pale-colored film negative, or
- the contrast strongly.

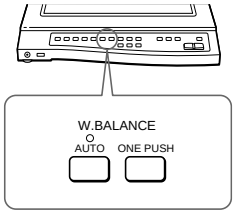


To go back to automatic iris
Press the AUTO button to light the AUTO indicator.

Locking the white balance setting (W.BALANCE buttons)

The VID-P110 automatically adjusts the white balance. You can lock the white balance setting when the object color is not displayed naturally. This is useful when you display:
- a monochromatic material (including film negatives) or background, or
- a pale colored material.

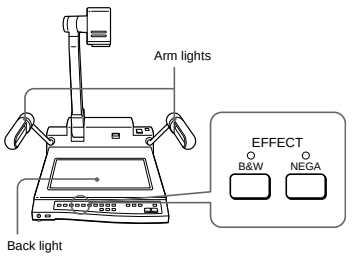
To lock the white balance setting, press the ONE PUSH button. The white balance setting which adjusts immediately before you pressed the button is held. In the ONE PUSH mode, it locks the last automatic white balance setting and maintains it even when the lighting conditions change. This allows the color of the material to be displayed naturally.



To go back to automatic white balance
Press the AUTO button to light the AUTO indicator when you change the object to be shot or the color of the material is not displayed naturally in the ONE PUSH mode. The VID-P110 unlock the white balance setting and adjust the white balance automatically.

Displaying film negatives (EFFECT buttons)

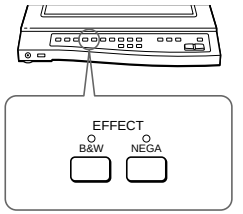
The VID-P110 is automatically set to display normal materials on the screen when you turn it on. Press the NEGA button on the operation panel to display the film negatives. The NEGA indicator above the button lights, and the arm lights go off and the back light comes on. The VID-P110 begins to display the reverse picture of the film negatives.
To display film negatives more naturally, see also “Locking the white balance setting (W.BALANCE buttons)” (page 16).



To display a normal material on the screen
Press the NEGA button when the NEGA indicator is lit. The NEGA indicator turns off and the arm lights turn on.

Setting the screen in monochrome mode (EFFECT buttons)

To set the screen in monochrome, press the B&W button. The B&W indicator lights to indicate that the screen is now set to monochrome. We recommend that you set the screen to monochrome when you display:
- a black and white material such as a black and white document or a black and white film, or
- a material which includes small type such as a newspaper and fine patterns.

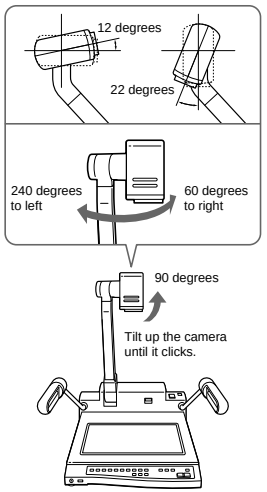


To set the screen in color
Press the B&W button again. The B&W indicator turns off and the screen is set to the normal color.

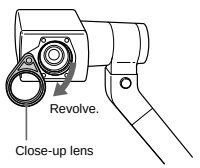
Note
When you shoot and display a finite pattern such as a column of newsprint, it is recommended to set the screen to monochrome and connect a monitor via the S VIDEO OUT connector.

Changing the camera direction

The VID-P110 allows you to tilt the camera upwards through 90 degrees, and move it from left to right, or up and down. Therefore, you can shoot and display the audience, students, or even yourself. To shoot an object far away from the VID-P110 itself, tilt up the camera and remove the close-up lens.

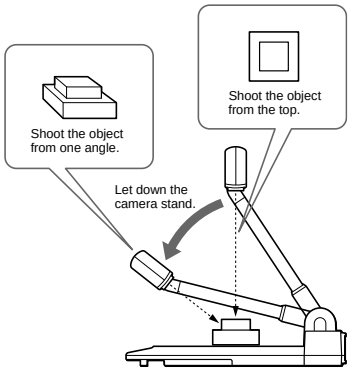


To remove the close-up lens



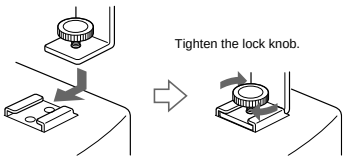
To shoot a three-dimensional object

To shoot and display a three-dimensional object, let down the camera stand. You can also shoot it from one angle.



Using the accessory shoe for an LCD monitor

This unit has an accessory shoe for attaching an LCD monitor.



Controlling the VID-P110 From a Computer

You can control the VID-P110 from a computer connected by an RS-232C connector. However, the software to control the VID-P110 must first be installed. Refer to the “Interface Manual” for details on the communication protocol for this software.

Specifications

Color system	NTSC or PAL color system
Pickup device	1/3" interline transfer method, CCD (Charge Coupled Device)
Resolution	NTSC model Horizontal: 460 TV lines Vertical: 350 TV lines PAL model Horizontal: 450 TV lines Vertical: 400 TV lines
Picture elements	380,000, 768 × 494 (H/V) (NTSC model) 440,000, 752 × 582 (PAL model)
Filming range	325 × 240 mm (at wide-angle) 29 × 22 mm (at telephoto)
Lens	12 × power zoom lens f = 5.4 to 64.8 mm (7/32 to 2 5/8 inches) F = 1.8 to 2.7
Zoom	Electrically powered (Two levels of speed zooming)
Focus	Auto/manual selectable
Iris	Auto/manual selectable
White balance	Auto/one push (fixed) selectable
Positive/negative film selection function	Possible
Monochrome/color selection function	Possible
Output signal selection	One output from three (CAMERA/VIDEO1/VIDEO2)
Light	Arm light: 9 W twin-fluorescent lamp × 2 Back light: 2.5 W cold cathode fluorescent lamp × 2
Input connectors	VIDEO IN (phone jack) (2) 1 Vp-p, 75 Ω, sync negative S VIDEO IN (4-pin mini DIN) (2) Y: 1 Vp-p, 75 Ω, sync negative C: 0.286 Vp-p, 75 Ω (NTSC model), 0.300 Vp-p, 75 Ω (PAL model) AUDIO IN L/R (phone jacks) (2 each) Input impedance: 47 kΩ Level: –10 dB, unbalanced MIC input (phone jack) (1) Input impedance: 3.3 kΩ Level: –60 dB, unbalanced
Output connectors	VIDEO OUT (BNC type) (1) 1 Vp-p, 75 Ω, sync negative VIDEO OUT (phone jack) (1) 1 Vp-p, 75 Ω, sync negative S VIDEO OUT (4-pin mini DIN) (1) Y: 1 Vp-p, 75 Ω, sync negative C: 0.286 Vp-p, 75 Ω (NTSC model), 0.300 Vp-p, 75 Ω (PAL model) AUDIO OUT L/R (phone jacks) (1 each) Output impedance: less than 600 Ω Level: –10 dB, unbalanced
RS-232C connector	D-sub, 9-pin, male
Power requirements	120 V AC, 60 Hz (NTSC model) 230 V AC, 50/60 Hz (PAL model)
AC output	AC OUT (auxiliary AC outlet) (NTSC model only) maximum 2.5 A/unswitched
Power consumption	120 V, 3 A (NTSC model) 0.3 A (PAL model)
Dimensions	After set up: Approximately 446 × 583 × 622 mm (w/h/d) (17 5/8 × 23 × 24 1/2 inches) After collapsed: Approximately 446 × 186 × 634 mm (w/h/d) (17 5/8 × 7 3/8 × 25 inches)
Mass	Approximately 8.0 kg (17 lb 10 oz)
Supplied accessories	AC power cord (1) Operation manual (1) Interface manual (1)

Design and specifications are subject to change without notice.